

Table 1. Sequences of the markers used to identified the QTLs underlying soy-phytoestrogen content of the soybean seed and the BAC clones identified using those sequences.

MARKER NAMES	SSR PRIMER SEQUENCES	SEQ ID NO.	BAC CLONES IDENTIFIED
Satt130	F: TGG TAG TGA AAG CAC GAC AAG R: AAC ACT TTG AAT CGC TAA AAA C	1 2	SoyH130-1, SoyH130-2, SoyB130-1
Satt356	F: CATGCCTGGTCCATTTTG R: TCAAGCCACGATAACAGTA	3 4	SoyH356-1, SoyH356-2, Soyh356-3
Satt317	F: GCGAACAACTTTCTATACATGATAACA R: GCGGGTATATTTTGTACATAAGTTGGAA	5 6	Soyb356-1, Soyb356-2 SoyH317-1, SoyB317-3, SoyB317-1, SoyB317-2
Satt306	F: GCGCTTAAGGACACGGATGTAAC [R: GCGTCTCTFI7TCGATTGTTCTATTAG] R: GCGTCTCTTTTCGATTGTTCTATTAG	7 8	SoyH306-1, SoyH306-2, SoyB306
Satt210	F: GCGAAAAACGTCAGGTCAATGACTGAAA R: GCGGGGCTTAGATATAAAAAAAGATG	9 10	Satt210, SoyH210-1, SoyB210-1, SoyB210-2, SoyB210-3
Satt308	[F: GCG7FFAAGGTTGGCAGGGTGGAAAGTG] F: GCGTTAAGGTTGGCAGGGTGGAAAGTG R: GCGCAGCTTTATACAAAAATCAACAA	11 12	SoyH308-1, SoyH308-2, SoyH308-3, SoyB308-1, SoyB308-2
Satt337	F: GCGTAAATCTGATATATGTTACCACTGA R: GCGTAATACGCAAAACATAATTAGCCTA	13 14	SoyH337-1, SoyH337-2, SoyH337-3, SoyB337-1, SoyB337-2, SoyB337-3
Satt326	F: AGATTCTCCTTTGCTTCTTAGT R: GTTAGTTCACCTTCCAGTATTTGA	15 16	SoyH326-1, SoyH326-2, SoyB326-1, SoyB326-3, SoyB356-2
Sat_116	F: CGT GAA CCA TAA TTA AAA TAT AAA T R: TTT TCT TAT CTC TTT TAA CCT ATC A	17 18	SoyH116-1, SoyB116-1, SoyH116-2, SoyB116-3
Satt240	F: GCGCCCTTTGGATTTTATTGC R: TTTCACCTTCCCTTCTTTTGA	19 20	SoyH240-1, SoyH240-2, SoyB240-1, SoyB240-2
Satt306	F: GCGCTTAAGGACACGGATGTAAC [R: GCGTCTC1TTTCGATTGTTCTATTAG] R: GCGTCTCTTTTCGATTGTTCTATTAG	21 22	SoyH306-1, SoyH306-2, SoyH306-3, SoyB306-1, SoyB306-2, SoyB306-3
Satt251	F: CCTCCACCCCTTCCCAACCAAAA R: GGTGATATCGCGCTAAAATTA	23 24	SoyH251-1, SoyB251-1, SoyB251-2, SoyB251-3
Satt369	F: AACATCCAAAGAAATGTGTTCAACAA [R: GCGAGTTTCAATYfCTTTTCAAGT] R: GCGAGTTTCAATTTCTTTTCAAGT	25 26	SoyH369-1, SoyH369-2, SoyB369-1, SoyB369-2
Satt231	F: GCGTGTGCAAAATGTTTCATCATCT R: GGCACGAATCAACATCAAACTTC	27 28	SoyH231-1, SoyH231-1 SoyB231-1, SoyB231-1
Satt415	F: GCGTCTCCCTTAATCTTCAAGC R: GCGTGTGACGGTTCAAAATGATAGTT	29 30	SoyH415-1, SoyB415-1 SoyB415-2
Satt197	F: CACTGCTTTTTTCCCTCTCT R: AAGATACCCCAACATTATTTGTAA	31 32	SoyH197-1, SoyH197-1 SoyB197-1, SoyB197-1
Satt324	F: GTTCCAGGTCCCACCATCTATG R: GCGTTTCTTYATACCTTCAAG	33 34	SoyH324-1, SoyH324-1 SoyH324-3, SoyB324-1, SoyB324-2

F = Forward R = Reverse



Satt306

Forward GCGCTTAAGGACACGGATGTAAC

Reverse GCGTCTCTTTCGATTGTTCTATTAG

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Satt308

Forward GCGTTAAGGTTGGCAGGGTGGAAGTG

Reverse GCGCAGCTTTATACAAAAATCAACAA

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Satt369

Forward AACATCCAAAGAAATGTGTTCAAA

Reverse GCGAGTTCGAATTTCTTTCAAGT

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Satt324

Forward GTTCCCAGGTCCCACCATCTATG

Reverse GCGTTTCTTTTATACCTTCAAG

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